

FIG. 1A

421	G T E F S A V S V E H D V P S I N F T I F H S W M W A V S I S T V G G D M X P E F H C R E F A L C A F	kv10 . 1 . PRC
337	G I M F S S L V F A E K D E D I K F K S I P A S E W W A T I T M T T V G G D I T P K T L G K I V G G C C I A	hKv2 . 1 . PRC
345	G I M F S S L V F A E K D E D I K F K S I P A S E W W A T I T M T T V G G D I T P K T L G K I V G G C C I A	hKv2 . 2 . PRC
481	G I L I N G M P I S F L M K F D S D Y S K I A Y E T T J R E ----- R G E V N E H O - R A R K K I A E C	kv10 . 1 . PRC
397	G V I V I A L P I P I I V N N F S E F Y K E Q Q R Q E K A I K R R E A L E R A K R N G S I V S H N M K D A F A R S I E M	hKv2 . 1 . PRC
405	G V I V I A L P I P I I V N N F S E F Y K E Q Q R Q E K A I K R R E A L E R A K R N G S I V S H N L K D A F A R S M E L	hKv2 . 2 . PRC
532	LL ----- G S N P Q L T P R - Q E N ----- M D I V E K N G R F D K V Q D N H L S E N K W M T K R T ----- S E T S S K S F E T R E Q G S P E R A R S - -	kv10 . 1 . PRC
457	MDI ----- V E K N G R F D K V Q D N H L S E N K W M T K R T ----- S E T S S K S F E T R E Q G S P E R A R S - -	hKv2 . 1 . PRC
465	TD ----- V A E K A G E S A T K D S A D D N H L S E S R W K M A R K A L S E T S S N K S F E T R E Q G S P E R A R S - -	hKv2 . 2 . PRC
546	SSSPQHINVQ Q Q L E D M Y N R M A K T Q - S O P I L N T K E S A Q S K P - K E E L E M E S I P S P V A	hKv2 . 1 . PRC
514	SSSPQHINVQ Q Q L E D M Y N R M A K T Q - S O P I L N T K E S A Q S K P - K E E L E M E S I P S P V A	hKv2 . 1 . PRC
525	NNTESSSPQHISAA Q Q L E M I N E I T K T Q P H S E N P D Q E K P E R S A Y E E E I E M E E V V C P Q E	hKv2 . 2 . PRC
546	PIP-TR E G V I D M R S M S I D S E I S C A T D F E A T R - SHS S P L T S L P S K T G S T A P E V G W R G A	hKv2 . 1 . PRC
567	PIP-TR E G V I D M R S M S I D S E I S C A T D F E A T R - SHS S P L T S L P S A S H L Q M - - - -	hKv2 . 2 . PRC
585	QIAVAQ E V I D M R S M S I D S E I S C A T D F E A T R - SHS S P L T S L P S A S H L Q M - - - -	hKv2 . 2 . PRC
546	LGASGG R E V E A N P S D A S Q H S S F E I E S P K S M K T N N P L K I R A L K V N F M E G D P S P L E P V L G	hKv2 . 1 . PRC
626	M ----- Y E D P F J R N G S A A V A G C E A T L E D K T L E Y A P V D I T V N E D S A G S Q T P S T A R P L P V T A	hKv2 . 2 . PRC
632	M ----- Y E D P F J R N G S A A V A G C E A T L E D K T L E Y A P V D I T V N E D S A G S Q T P S T A R P L P V T A	hKv2 . 2 . PRC
546	SOCGLHSPIQSNDATDSPKSSEKSRSLKVNFKENRGSAQTPPSTARPLPVTTA	hKv2 . 1 . PRC
686	SOCGLHSPIQSNDATDSPKSSEKSRSLKVNFKENRGSAQTPPSTARPLPVTTA	hKv2 . 2 . PRC
683	SOCGLHSPIQSNDATDSPKSSEKSRSLKVNFKENRGSAQTPPSTARPLPVTTA	hKv2 . 2 . PRC

FIG. 1B

546 NFEAGVH^{OY}[DADTDDEGQI]^IYSVDDSS^IPPKSLPGSTSPKF^ISTGTRSEKNHFE^ISSPLPTSP^I hKv10.1.PRC
 743 NFEAGVH^{OY}[DADTDDEGQI]^IYSVDDSS^IPPKSLPGSTSPKF^ISTGTRSEKNHFE^ISSPLPTSP^I hKv2.1.PRC
 743 D^IE^IS^IT^IT^IP^IH^IST^I--^II^I--^IE^IE^IT^IE^IS^IQ^IGDRPCWALRE^IQRLVRDL^I--^I--^I-PKGC^IPP^I hKv2.2.PRC
 kv10.1.PRC
 hKv2.1.PRC
 hKv2.2.PRC

546 K^IF^IL^IR^IO^IN^IC^II^ISTEALTGKGPSQERCK^IDENHISPDVVRVLPGGAHGSTRDQSI^I
 803 G^IE^IP^IS^IR^IN^IC^II^IS^I-----LQERGGASL^IK^I
 787 G^IE^IP^IS^IR^IN^IC^II^IS^I

FIG. 1C

472 FEEAA[LC]IAEGI[I]INGMP[SI]LYNKEFS^I Kv10.1
 439 VVALSS^II[LSGILLMAFPVTS]FHTFS^I Kv6.1
 388 I^IWGG[CC]IAGMV^IAI^IPI^IIVNNES^I Kv2.1

FIG. 2.

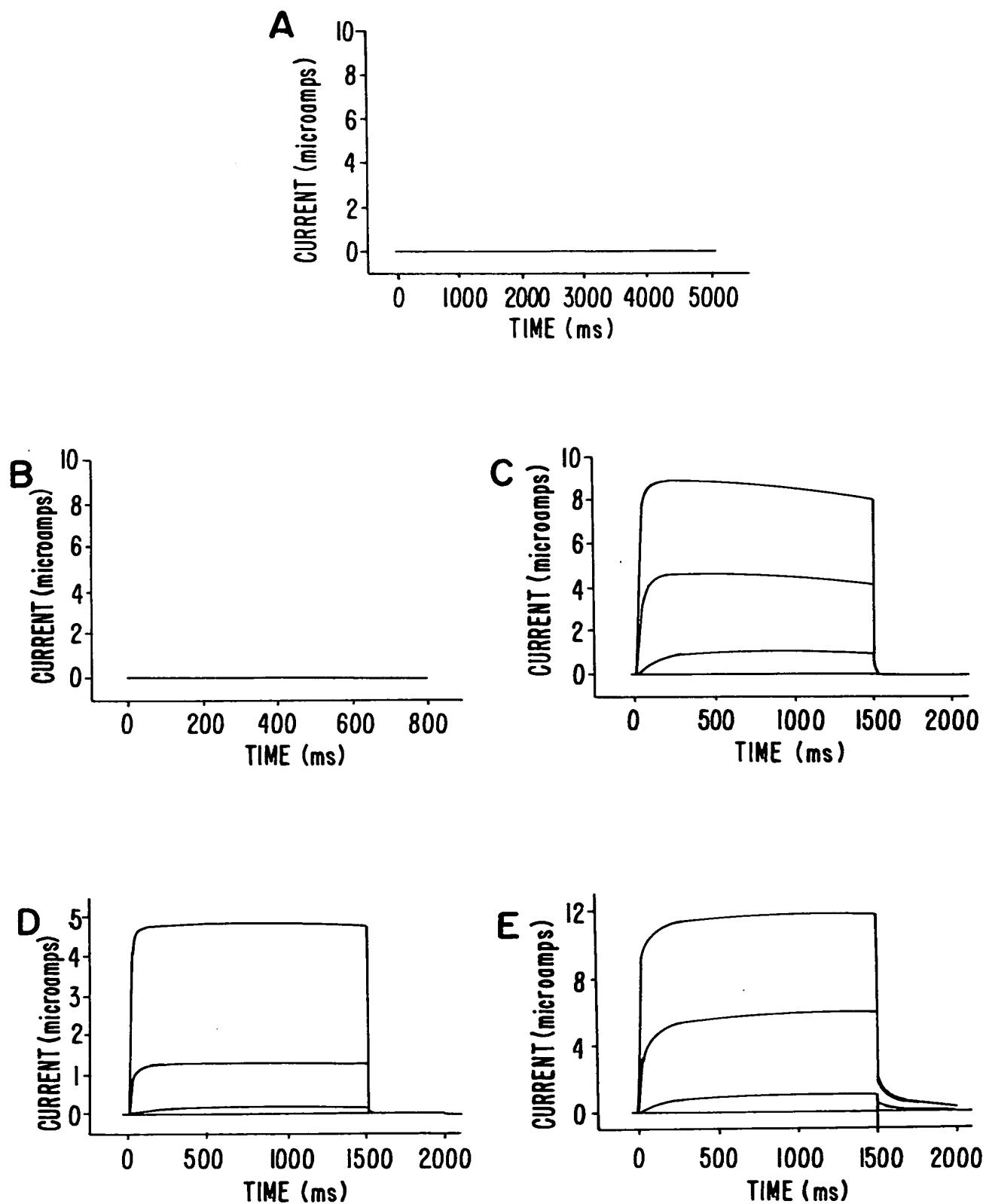


FIG. 3.

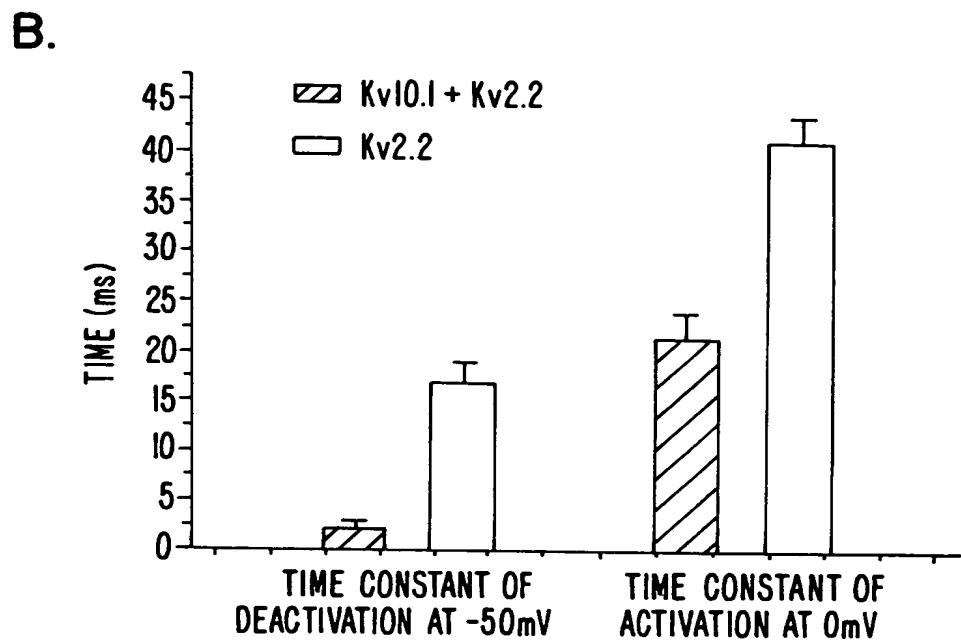
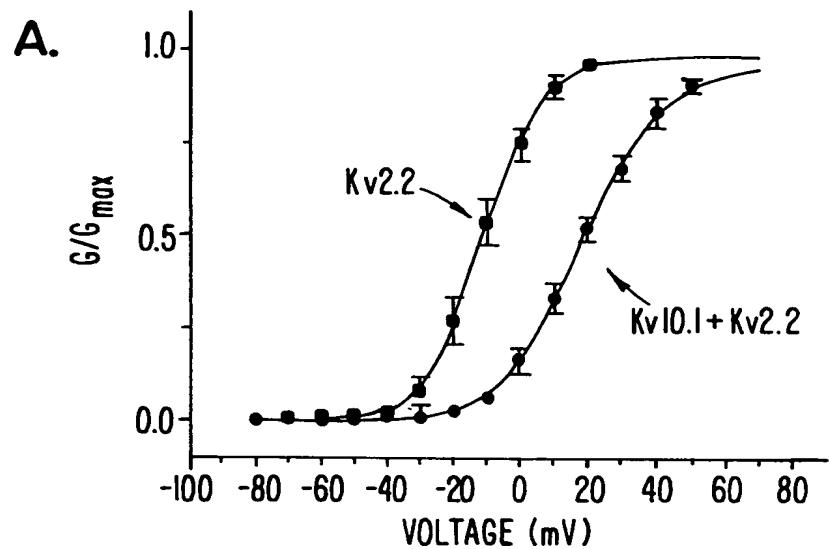


FIG. 4.

FIG. 5.

TR = TRACE LEVELS	TR WHOLE BRAIN
	FETAL BRAIN
	TRIGEMINAL
	DRG
	TR FRONTAL CORTEX
	HIPPOCAMPUS
	+ SPINAL CORD
	+ SUBSTANTIA NIGRA
	HYPOTHALAMUS
Kv10.1 mRNA	CEREBELLUM
	KIDNEY
	HEART
	++ TESTIS
	SPLEEN
	PANCREAS
	BLADDER
	+ PROSTATE
	LIVER
	SKELETAL MUSCLE
	PLACENTA
	COLON
	+ RETINA 9/9